

# PLASTIC PACKAGING MATERIAL OF GAS BARRIER PROPERTIES AND MANUFACTURE THEREOF

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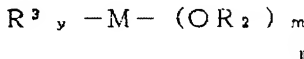
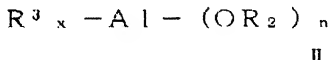
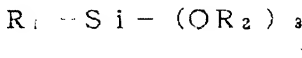
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## Abstract of JP10244613

PROBLEM TO BE SOLVED: To prevent crack of a packaging material film and improve gas barrier properties by coating a mixture comprising hydrolyzed substance composed of Si alkoxide and alkoxide hydrolyzed substance of specific metal on at least one side of a plastic base to form a film by condensation polymerization. SOLUTION: A mixture comprising hydrolyzed substance composed of Si alkoxide indicated by formula I, and hydrolyzed substance composed of one or more metallic alkoxide selected from Ti, Zr, or Al indicated by formula II and/or III is condensed and polymerized to form a film on at least one side of a plastic base. In the expressions, R1 is a saturated or unsaturated 1-20C hydrocarbon residue, R2 is a 1-4C alkyl group, and R3 is a 1-20C hydrocarbon residue combining Al or M through oxygen, and  $0 \leq n \leq 3$ ,  $0 \leq x \leq 3$ , and  $x+n=3$ . M is one or more selected from Ti or Zr, and  $0 \leq m \leq 3$ ,  $0 \leq y \leq 3$ , and  $m+y=4$ .



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